	1	22.	(Once Amended) A method for decrypting encrypted communications among
	2		multicast nodes in a telecommunications network, the method comprising the
	3		computer-implemented steps of:
ı	4		receiving from an originating node a multicast that includes encrypted data and an
Al	5		identifier;
17 .	6		identifying the identifier from the multicast;
	7		sending a request that includes the identifier to an authoritative node for an
	8		encryption key used by the originating node to encrypt the encrypted data;
	9		in response to the request to the authoritative node, receiving the encryption key;
	10		and
	11		decrypting the encrypted data based on the encryption key.
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	1	24.	(New) A computer-readable medium carrying one or more sequences of instructions
	2		for facilitating secure communications among multicast nodes in a
	3		telecommunications network, which instructions, when executed by one or more
	4		processors, cause the one or more processors to carry out the steps of:
	5		receiving, from a first node, a first request to store an encryption key, wherein the
12	6		first request includes an identifier, and wherein the first node uses the
110	7		encryption key to encrypt data that is multicast with the identifier to a
	8		plurality of second nodes;
	9		in response to the first request,
	10		storing the encryption key;
•	11		creating and storing an association between the encryption key and the
	12		identifier;
	13		receiving, from at least one second node of the plurality of second nodes, a second
	14		request to obtain the encryption key, wherein the second request includes the
	15		identifier;
	16		in response to the second request,
	17		based on the identifier included in the second request and the association
	18		between the encryption key and the identifier, retrieving the
	19		encryption key; and

20		sending the encryption key to the at least one second node for use in
21		decrypting the encrypted data.
1	25.	(New) A computer-readable medium carrying one or more sequences of instructions
2		for encrypting communications among multicast nodes in a telecommunications
3		network, cause the one or more processors to carry out the steps of:
4		sending an encryption key and an identifier that is associated with the encryption
5		key to an authoritative node that stores the encryption key and identifier and
6		that creates and stores an association between the encryption the encryption
7		key and the identifier;
8		encrypting data based on the encryption key; and
9		multicasting the encrypted data with the identifier to one or more receiving nodes,
10		wherein the one or more receiving nodes use the identifier to retrieve the
11		encryption key from the authoritative node and decrypt the encrypted data
12		based on the encryption key.
1	26.	(New) An apparatus for facilitating secure communications among multicast nodes
2		in a telecommunications network, comprising:
3		means for receiving, from a first node, a first request to store an encryption key,
4		wherein the first request includes an identifier, and wherein the first node
5		uses the encryption key to encrypt data that is multicast with the identifier to
6		a plurality of second nodes;
7		means for storing the encryption key, in response to the first request;
8		means for creating and storing an association between the encryption key and the
9		identifier, in response to the first request;
10	•	means for receiving, from at least one second node of the plurality of second nodes,
11		a second request to obtain the encryption key, wherein the second request
12		includes the identifier;
13		means for retrieving the encryption key, in response to the second request and based
14		on the identifier included in the second request and the association between
15		the encryption key and the identifier; and

16		means for sending the encryption key to the at least one second node for use in
17		decrypting the encrypted data, in response to the second request.
1 2	27.	(New) An apparatus for encrypting communications among multicast nodes in a telecommunications network, comprising:
3		means for sending an encryption key and an identifier that is associated with the
4		encryption key to an authoritative node that stores the encryption key and
5		identifier and that creates and stores an association between the encryption
6		the encryption key and the identifier;
7		means for encrypting data based on the encryption key; and
8		means for multicasting the encrypted data with the identifier to one or more
9		receiving nodes, wherein the one or more receiving nodes use the identifier
10		to retrieve the encryption key from the authoritative node and decrypt the
11		encrypted data based on the encryption key.
1	28.	(New) An apparatus for facilitating secure communications among multicast nodes
2		in a telecommunications network, comprising:
3		a processor;
4		one or more stored sequences of instructions which, when executed by the
5		processor, cause the processor to carry out the steps of:
6		receiving, from a first node, a first request to store an encryption key,
7		wherein the first request includes an identifier, and wherein the first
8		node uses the encryption key to encrypt data that is multicast with the
9		identifier to a plurality of second nodes;
10		in response to the first request,
11		storing the encryption key;
12		creating and storing an association between the encryption key and
13		the identifier;
14		receiving, from at least one second node of the plurality of second nodes, a
15		second request to obtain the encryption key, wherein the second
16		request includes the identifier;

17	in response to the second request,
18	based on the identifier included in the second request and the
19	association between the encryption key and the identifier,
20	retrieving the encryption key; and
21	sending the encryption key to the at least one second node for use in
22	decrypting the encrypted data.
1	29. (New) An apparatus for encrypting communications among multicast nodes in a
12^{2}	telecommunications network, comprising:
3	a processor;
4	one or more stored sequences of instructions which, when executed by the
5	processor, cause the processor to carry out the steps of:
6	sending an encryption key and an identifier that is associated with the
7	encryption key to an authoritative node that stores the encryption key
8	and identifier and that creates and stores an association between the
9	encryption the encryption key and the identifier;
10	encrypting data based on the encryption key; and
11	multicasting the encrypted data with the identifier to one or more receiving
12	nodes, wherein the one or more receiving nodes use the identifier to
13	retrieve the encryption key from the authoritative node and decrypt
14	the encrypted data based on the encryption key.